

CLAIMS

1. A data distribution center associated with a broadband network system wherein the first broadband network system further includes at least one broadband interface unit

(BIntU) transceiver comprising:

5 a receiver portion that is configured to receive user defined protocol with value-added (UDPVA) packet from the BIntU transceiver; and

a transmitter portion that is configured to transmit return packets that is triggered in response to the UDPVA packets, wherein the data distribution center indicates to the BIntU transceiver that the UDPVA packets forwarded by the BIntU transceiver to the data

10 distribution center are being received by the data distribution center or a second BIntU transceiver.

2. The data distribution center of claim 1, further comprising a security portion that confirms the identity of an end user located at the BIntU transceiver.

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3. The data distribution center of claim 2, wherein the security portion includes a public key included in the data distribution center.

4. The data distribution center of claim 1, further comprising a monitoring portion that
20 monitors the transmission of packets from the BIntU transceiver.

5. The data distribution center of claim 1, wherein the UDPVA packet includes at least one from audio, video, and other data.

6. The data distribution center of claim 1, wherein the UDPVA packet includes a Java applet.

7. The data distribution center of claim 1, wherein the data distribution center interfaces
5 with the second BIntU transceiver, therein the data distribution center forwards the received UDPVA packet to the second BIntU transceiver received from the first BIntU transceiver;
and

wherein the data distribution center receives the return packet from the second BIntU transceiver and forwards the return packet to the first BIntU transceiver.

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8. The data distribution center of claim 7, wherein the UDPVA packet includes a Java applet, and wherein the return packet is triggered at the data distribution center or the second BIntU transceiver in response to the Java applet.

15 9. The data distribution center of claim 1, wherein the UDPVA packet are received by the data distribution center or transmitted by the data distribution center utilize security techniques.

10. The data distribution center of claim 9, wherein the security techniques utilize
20 biometric technology that may be accessed by the data distribution center.

11. The data distribution center of claim 9, wherein the security techniques utilize smart card technology that may be accessed by the data distribution center.

12. The data distribution center of claim 9, wherein the security techniques utilize private key encoding technology that may be accessed by the data distribution center.

13. The data distribution center of claim 1, further comprising a data distribution center that interfaces with the first BIntU transceiver, wherein the data distribution center or the second BIntU transceiver selectively transmits a return packet to the first BIntU transceiver in response to the UDPVA packet, and wherein an end user at the second BIntU transceiver can access the UDPVA packet based on the security.

14. The data distribution center of claim 1, further comprising a control portion that controls the transmission of packets from the BIntU transceiver to the second BIntU transceiver.

15. A data distribution center for transferring user datagram protocol value-added (UDPVA) packet to an end user comprising:
an encoder/decoder (codec) configured to alternatively encode or decode UDP frame information; and

a digital signal processor (DSP) portion coupled to the codec, wherein the DSP portion conveys the UDPVA packet including UDP frame information, and wherein the UDPVA packet is available for delivery to a network destination address or storage located on a local area network or a wide area network.

052050-0008

16. The data distribution center of claim 15, further comprising an on-screen display buffer that dynamically assigns display specifications based on application requirements, wherein the application requirements relate to an application selected by an end user using the BIntU transceiver.

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17. The data distribution center of claim 15, wherein the value-added information included in the UDPVA packet includes an indicator of UDP delivery of header information.

10 18. The data distribution center of claim 15, further comprising a processor, wherein the UDPVA packet is received from an end user located at a BIntU transceiver independently of the processor.

15 19. The data distribution center of claim 15, wherein the multimedia architecture includes a controller/processor.

20. The data distribution center of claim 15, wherein the UDPVA packet includes at least one from audio, video, and other data.

20 21. The data distribution center of claim 15, wherein the UDPVA packet includes a Java applet.

22. The data distribution center of claim 15, wherein the data distribution center interfaces with a broadband interface unit (BIntU) transceiver, and wherein the BIntU

052050-0008

transceiver transmits a return packet to the data distribution center in response to the UDPVA packet.

23. The data distribution center of claim 22, wherein the UDPVA packet includes a Java applet, and wherein the return packet is transmitted in response to the Java applet.

24. The data distribution center of claim 15, wherein the UDPVA packet is transmitted to a remote BIntU transceiver utilizing security techniques to ensure the identity of an end user.

25. The data distribution center of claim 24, wherein the security technique utilizes biometric technology.

26. The data distribution center of claim 24, wherein the security technique utilizes smart card technology.

27. The data distribution center of claim 24, wherein the security technique utilizes private key encoding technology.

28. The data distribution center of claim 24, wherein the data distribution center interfaces with a broadband interface unit (BIntU) transceiver, wherein the data distribution center selectively transmits a return packet to the BIntU transceiver in response to a record UDPVA packet, and wherein an end user at the BIntU transceiver can access the UDPVA packet based on the security techniques.

052050-0008

29. A method for transferring user datagram protocol with value-added (UDPVA)

packet from a broadband interface unit (BIntU) transceiver to a data distribution center

comprising:

alternatively coding or decoding UDP frame information using an encoder/decoder

5 (codec); and

temporarily storing the UDP frame information as a UDPVA packet within the stack
using a digital signal processor (DSP) portion coupled to the codec, wherein the UDPVA
packet is in a form to be transmitted directly to a network destination address device.

10 30. The method of claim 29, wherein the UDPVA packet includes a Java applet.

31. The method of claim 29, wherein the broadband interface unit (BIntU) transceiver
transmits the UDPVA packet to the data distribution center.

15 32. The method of claim 31, further comprising the step of generating a return packet to
be transmitted from the data distribution center to the BIntU transceiver in response to the
UDPVA packet.

33. The method of claim 29, wherein the UDPVA packet is transmitted to a remote
20 BIntU transceiver using security techniques.

34. A method for transferring datagram protocol value-added user with (UDPVA)
packet from a data distribution center to an end user, the method comprising:

alternatively coding or decoding UDP frame information from an encoder/decoder

25 (codec); and

052050-0008

generating the UDPVA packet in response to the UDP frame information using a digital signal processor (DSP) portion that is coupled to the codec, wherein the UDPVA packet is available for delivery to a network destination address or storage located on a local area network or a wide area network.

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35. The method of claim 34, wherein the UDPVA packet includes a Java applet.

36. The method of claim 34, wherein the data distribution center transmits the UDPVA packet to a broadband interface unit (BIntU) transceiver.

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37. The method of claim 36, further comprising the step of generating a return packet to be transmitted from the data distribution center to the BIntU transceiver in response to the UDPVA packet.

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38. The method of claim 34, wherein the UDPVA packet is transmitted from the BIntU transceiver using security techniques.

39. An apparatus for transferring user datagram protocol with value-added (UDPVA) packet from a first broadband interface unit(BIntU) transceiver at a data distribution center comprising:

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means for decoding UDP frame information from a UDP packet using an encoder/decoder (codec), the UDP frame information was received from the first BIntU transceiver; and

means for temporarily storing the UDP frame information as UDPVA packet within

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the stack using a digital signal processor (DSP) portion coupled to the codec, wherein the

052050-0008

UDPVA packet is in a form to be transmitted directly to a network destination address device.

40. The apparatus of claim 39, further comprising:

5 means for encoding UDP frame information to form a second UDP packet, wherein the second UDP packet is transmitted to a second BIntU transceiver.

41. An apparatus for transferring user datagram protocol value-added with (UDPVA) packet from a broadband interface unit(BIntU) transceiver to a data distribution center, the

10 method comprising:

means for alternatively coding or decoding UDP frame information using an encoder/decoder (codec); and

means for generating and transmitting the UDPVA packet from the BIntU transceiver to the data distribution center in response to the UDP frame information using a
15 digital signal processor (DSP) portion coupled to the codec, wherein the UDPVA packet is available for delivery to a network destination address or storage located on a local area network or a wide area network.

42. A data distribution center for transferring user datagram protocol with value-added
20 (UDPVA) packet from a broadband interface unit(BIntU) transceiver to a data distribution center, comprising:

an encoder/decoder (codec) configured to alternatively encode or decode UDP frame information; and

052050-0008

a digital signal processor (DSP) portion coupled to the codec, wherein the DSP portion includes a stack, wherein the DSP portion temporarily stores the UDP frame information as UDPVA packets within the stack, wherein each UDPVA packet is in a form to be transmitted directly to a network destination address device, and wherein the UDPVA

5 packet is transmitted at, or below, the transport level.

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